



# MATHEMATICS

## Transfer Requirements

The following requirements for the major are subject to change. To assure accuracy of the information on this sheet, you should consult with a STEM counselor, or review articulation agreements at [WWW.ASSIST.ORG](http://WWW.ASSIST.ORG). Career information for the field of Mathematics is available in the El Camino College Career/Transfer Center.

### **AS-T Requirements: total units 24-25**

**Core Requirements:** 15 units: Math 190, 191, 220;

**List A:** 5 units: Math 270

**List B:** 4 or 5 units from: Computer Science 1, 2, 3, Mathematics 150, 210, Physics 1A, 3A

### **CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS (2021-2022)**

**BS Mathematics:** Math 190, 191, 220, 210; Computer Science 2, 3; Physics 1A

**BS Mathematics Education:** Math 190, 191, 220, 210, 150; Physics 1A

### **CALIFORNIA STATE UNIVERSITY, FULLERTON (2021-2022)**

**BA Mathematics (all concentrations):** Math 190, 191, 220, 270; Computer Science 1; Each student is required to take one of the following cognates:

Chemistry: Chemistry 1A, 1B

Civil Engineering: Engineering 9

Computer Science: Computer Science 2, 3, 16

Economics: Economics 101, 102

Finance: no additional lower division courses

Information Systems and Decision Sciences: no additional lower division courses

Mathematics: no lower division courses

Physics: no courses articulated

Research: no lower division courses

**Concentrations:** Actuarial Science, Applied Mathematics, Pure Mathematics, Probability and Statistics, Teaching Mathematics

### **CALIFORNIA STATE UNIVERSITY, LONG BEACH (2021-2022)**

**BS Mathematics:** Math 190, 191, 220, 270, 210; Computer Science 3; Physics 1A, 1B

Applied Math (Science and Engineering.): add Physics 1C; Physics 1D or Engineering 9

Applied Math (Economics & Finance): add Economics 101, 102

Statistics: no additional course

Math Education: no additional course

**NOTE:** Major specific admissions requirements, please visit: <https://www.csulb.edu/admissions/transfer-admission-eligibility>

### **CALIFORNIA STATE UNIVERSITY, LOS ANGELES (2021-2022)**

**BS Mathematics:** Math 190, 191, 210, 220, 270; Physics 1A

Applied Math: add Biology 102; Chemistry 1A; Computer Science 2; Math 150; Physics 1C

General Math: add Biology 102; Chemistry 1A; Computer Science 2; Math 150; Physics 1C

Integrated Teaching: add Math 150

**NOTE:** Major specific admissions requirements, please visit:  
<https://www.calstatela.edu/admissions/major-specific-criteria>

**CALIFORNIA STATE UNIVERSITY, NORTHRIDGE** (2021-2022)

**BA Mathematics:** Computer Science 1; Math 190, 191, 220; Physics 1A  
Option in Secondary Teaching: no additional classes

**BS Mathematics:** Computer Science 1; Math 190, 191, 220; Physics 1A  
Option in Applied Mathematical Sciences: no additional classes  
Option in Statistics: no additional classes

**CALIFORNIA POLYTECHNIC UNIVERSITY, POMONA** (2021-2022)

**BS Mathematics:** Math 190, 191, 220, 270; Physics 1A; Physics 1C or Biology 101 and 102  
Option in Applied Math/Statistics: no additional classes  
Option in Secondary Teacher Prep: no additional classes

**NOTE:** Major specific admissions requirements, please visit:  
<https://www.cpp.edu/admissions/transfer/impacted-majors.shtml>

**CALIFORNIA POLYTECHNIC UNIVERSITY, SAN LUIS OBISPO** (2021-2022)

**BS Mathematics:** Math 190, 191, 220, 270; Computer Science 1 or 3; Physics 1A, 1B, 1C, 1D  
Other Courses (concentration/emphasis/electives) add: Computer Science 30; Engineering 9

**NOTE:** Major specific admissions requirements, please visit:  
<https://www.calpoly.edu/admissions/transfer-student/selection-criteria/major-specific-transfer-criteria>

**SAN DIEGO STATE UNIVERSITY** (2021-2022)

**BA Mathematics:** Math 190, 191, 210, 220, 270, and Math 150 or Psychology 109A or Sociology 109  
Options in Integrated Teacher Education Program, Single Subject Teaching: no additional classes

**BS Mathematics:** Math 190, 191, 210, 220, 270, and Math 150 or Psychology 109A or Sociology 109  
Options in Applied Math, Computational Science, Mathematics Education: no additional classes

**NOTE:** Major specific admissions requirements, please visit:  
[https://sunspot.sdsu.edu/pubred/!tap\\_disp?p\\_action=list\\_majors](https://sunspot.sdsu.edu/pubred/!tap_disp?p_action=list_majors) \*\*For some options, SDSU requires classes for transfer admission that ECC currently does not have equivalents according to SDSU Transfer Admission Planner (TAP)

**UNIVERSITY OF CALIFORNIA, BERKELEY** (2021-2022)

**BS Mathematics/Applied Mathematics:** Math 190, 191, 220, 270; highly recommend Math 210. You **must** complete either: (1) UCB's requirements (Reading & Composition, Foreign Language, and Quantitative Reasoning) or (2) IGETC by the end of the spring term that precedes fall enrollment at Berkeley.

**BS Engineering Mathematics and Statistics:** Math 190, 191, 220, 270; Chemistry 1A; Physics 1A, 1B, 1C, 1D; English 1A, 1B; strongly recommended: Computer Aided Design/Drafting 5, 7; Math 210; Computer Science 2, 30

**UNIVERSITY OF CALIFORNIA, IRVINE** (2021-2022)

**BS Mathematics:** Math 190, 191, 220, 270; Chemistry 1A & 1B or Physics 1A & 1C or 1A & 1B & 1D or 1A & 1B & 1C & 1D; Computer Science 17

**NOTE:** Major specific admissions requirements, please visit:  
<https://www.admissions.uci.edu/apply/transfer/requirements.php>

### **UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)** (2021-2022)

**BS Mathematics:** Math 190, 191, 220, 270; Computer Science 1; Physics 1A; Two additional courses from: Biology 102; Chemistry 1A, 1B; Physics 3A and 3B or Physics 1C and 1D; Philosophy 106

**BS Applied Mathematics:** Math 190, 191, 220, 270; Computer Science 1; Physics 1A, 1C; one course from Physics 1D or Chemistry 1A or 1B

**BS Mathematics/Applied Science:** Math 190, 191, 220, 270; Computer Science 1.

Programs include individual plan, medical and life sciences plan, and history of science plan. You may combine the study of math with fields such as physics, biology, chemistry, biochemistry, economics, and geography. Consult [www.assist.org](http://www.assist.org) or the UCLA catalog for more information and requirements.

Medical and Life Science Plan add: Chemistry 1A, 1B, 7A; Biology 101, 102; Physics 1A, 1C

**BS Mathematics of Computation:** Math 190, 191, 220, 270, 210; Physics 1A or 3A; Computer Science 1; two courses from: Physics 1D or Chemistry 1A or 1B

**BS Atmospheric and Oceanic Sciences/Mathematics:** Math 190, 191, 220, 270; Chemistry 1A, 1B; Physics 1A, 1C, 1D; Computer Science 1

**BS Financial Actuarial Mathematics:** Math 190, 191, 220, 270; Economics 101, 102; Business 1A, 1B; Computer Science 1

**BS Mathematics for Teaching:** Math 190, 191, 220, 270, 210; Physics 1A and 1C; Computer Science 1; one course from: Chemistry 1A and 1B; Physics 1C, 1D, 3B; Computer Science 2

**BS Mathematics/Economics:** Math 190, 191, 220, 270, 210; Computer Science 1; Economics 101, 102  
UCLA Transfer Admission Guide: <https://admission.ucla.edu/apply/transfer/deciding-on-major>

### **UNIVERSITY OF CALIFORNIA, RIVERSIDE** (2020-2021)

**BA & BS Mathematics and BS Mathematics for Secondary School Teachers:** Math 190, 191, 220, 270; one sequence from Chemistry 1A-1B or Biology 101-102 or Physics 1A-1B-1C

\*Note: Students will need a minimum 2.70 GPA in UC transferable course work for admission consideration. Math majors will follow the College of Natural and Agricultural Science breadth requirements. IGETC is not accepted for this major. Transfer students who wish to supplement their lower division math and science preparation with humanities or social sciences are encouraged to follow the CNAS breadth pattern as described under the GE/Breadth on ASSIST.

**NOTE:** Major specific admissions requirements, please visit: <https://admissions.ucr.edu/transfer/majors-preparation-guide>

### **UNIVERSITY OF CALIFORNIA, SANTA BARBARA** (2021-2022)

**BA and BS Mathematics, BS Applied Mathematics:** Math 190, 191, 220, 270; Physics 1A or 2A or 3A; Computer Science 1 or 14 or 17

**BS Financial Mathematics and Statistics:** Math 190, 191, 220, 270; Economics 101, 102; Computer Science 1 or 14 or 17

**Note:** UCSB Selective Majors: <https://admissions.ext-prod.sa.ucsb.edu/selective-majors>

### **UNIVERSITY OF CALIFORNIA, SAN DIEGO** (2021-2022)

**BS Mathematics:** Math 190, 191, 220, 270

**BS Applied Mathematics:** Math 190, 191, 220, 270; Computer Science 3

**BS Mathematics/Applied Science:** Math 190, 191, 220, 270; Computer Science 3

**BS Mathematics/Computer Science:** Math 190, 191, 220, 270; Computer Science 2, 3

**BS Mathematics: Joint Major in Mathematics and Economics:** Math 190, 191, 220, 270; Economics 101, 102

**BS Mathematics: Probability and Statistics:** Math 190, 191, 220, 270; Computer Science 3

**BA Mathematics/Secondary Education:** Math 190, 191, 220, 270; Computer Science 3

**NOTE:** Major specific admissions requirements, please visit: <https://admissions.ucsd.edu/transfer/transfer-major-preparation.html>

**LOYOLA MARYMOUNT UNIVERSITY (LMU) (2021-2022)**

**BA/BS:** Math 190, 191, 220, 270: one course from Physics 1A, 1C; Computer Science 2, 3; Biology 101, 102; Chemistry 1A, 1B

**Note:** LMU Recommended Courses by Major:

<https://transfer.lmu.edu/howtotransfer/prepare/recommendedcoursesbymajor/>

**UNIVERSITY OF SOUTHERN CALIFORNIA (USC) (2021-2022)**

**BA:** Math 190, 191, 220, 270

**BS:** Math 190, 191, 220, 270; Physics 1A and 1B or Physics 3A; three additional courses from: Biology 101 and 102; Chemistry 1A or 1B or 7A or 7B; Geology 1 and 3 or Geology 2 or 3 or 4; Oceanography 10; Astronomy 20H; Physics 1A and 1B, Physics 1B and 1C, Physics 1D, Physics 2A or 2B, Physics 3A or 3B

**NOTE:** USC Transfer Planning Guide: <https://camel2.usc.edu/TPG/>